

General Disclaimer

One or more of the Following Statements may affect this Document

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.

80-10279
CTR-163345

PRELIMINARY

HEAT CAPACITY MAPPING REPORT

NAS 5 - 24232

"Made available under NASA sponsorship
in the form of a preliminary report to the dis-
semination of information program
Program of the National Aeronautics and Space Administration
for any use and purpose."

STANFORD REMOTE SENSING LABORATORY

Dept. of Applied Earth Sciences
Stanford, California 94305

(F80-10279) GEOLOGICAL AND GEOTHERMAL DATA
USE INVESTIGATIONS FOR APPLICATION EXPLORER
MISSION-A (HEAT CAPACITY MAPPING MISSION)
Technical Report, 1 Oct. - 31 Dec. 1979
(Stanford Univ.) 5 p HC A02/MP A01 CSCL 03B G3/43

N80-29822

Unclass
00279

October 1, 1979 to December 31, 1979

R. J. P. Lyon

Ronald J. P. Lyon
Principal Investigator

Irwin Remson

Irwin Remson
Chairman

George A. Parks
George A. Parks
Associate Dean Research

Sponsored Projects

RECEIVED

JUN 4 1980

SIS/902.6
HEM 814
TYPE #

A. Title of Investigation: Geological and Geothermal Data Use
Investigations for Application Explorer
Mission-A (Heat Capacity Mapping Mission)

B. Investigation No.: Contract NAS 5-24232

C. Principal Investigators: R.J.P. Lyon
Dept. of Applied Earth Sciences
School of Earth Sciences
Stanford University
Stanford, California 94305
(415) 497-0847

A. E. Prelat
Dept. of Applied Earth Sciences
School of Earth Sciences
Stanford University
Stanford, California 94305
(415) 497-0847

D. Technical Monitor: J.C. Broderick
Goddard Space Flight Center
Greenbelt, Maryland 20771
(301) 982-4826

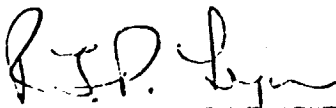
E. Period: October 1, 1979 to December 31, 1979

F. Action Required: None - Research Awaiting tapes

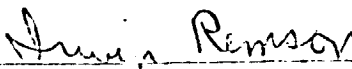
PRELIMINARY
HEAT CAPACITY MAPPING REPORT
NAS 5 - 24232

STANFORD REMOTE SENSING LABORATORY
Dept. of Applied Earth Sciences
Stanford, California 94305

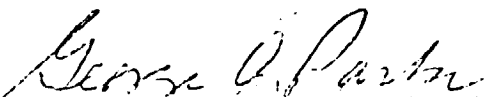
January 1, 1980 to March 31, 1980



Ronald J. P. Lyon
Principal Investigator



Irwin Remson
Chairman



George A. Parks
Associate Dean Research

Sponsored Projects

RECEIVED

JUN 4 1980

SIS/902.6
HCM 014
TYPE II

A. Title of Investigation: Geological and Geothermal Data Use
Investigations for Application Explorer
Mission-A (Heat Capacity Mapping Mission)

B. Investigation No.: Contract NAS 5-24232

C. Principal Investigators: R.J.P. Lyon
Dept. of Applied Earth Sciences
School of Earth Sciences
Stanford University
Stanford, California 94305
(415) 497-0847

A. E. Prelat
Dept. of Applied Earth Sciences
School of Earth Sciences
Stanford University
Stanford, California 94305
(415) 497-0847

D. Technical Monitor: J.C. Broderick
Goddard Space Flight Center
Greenbelt, Maryland 20771
(301) 982-4826

E. Period: January 1, 1980 to March 31, 1980

F. Action Required: Delta-T & T.I. tapes needed.

REPORT

The following HCMM 9-track, 1600 BPI calibrated tapes have been received to date (April, 1980):

Set 1:	AA-0034-10210-3	30 May 1978
	0035-21310-1,2	(complete)
	0035-21340-replaced by 0035-21330-1,2	
Set 2:	AA-0082-10160-3	17 July 1978
	0082-21090-1,2	(complete)
Set 3:	AA-0184-21040-1,2	20 October 1978
	(No night IR received, apparently no available)	
Set 4:	AA-0226-20480-1,2	7 December 1978
	(No night IR received, apparently too cold!)	

No Delta-T, apparently thermal inertia, etc. sets have been received yet, except TEST TAPE set (E. USA) AANDU-800823-1,2,3.

TRAVEL

Dr. A.E. Prelat attended the HCMM briefing at Ispna, Italy at NASA request, presenting a review of the Stanford HCMM project and an overview of the advantages of presenting merged data sets--Landsat plus HCMM dates. It was apparently well received.

PROGRES

1. Field data from the three site visits has been written up in final form.
2. The HCMM data from Set 2 (July 1978) has been studied relative to the field data using the Watson model. A reasonable fit has been secured.